

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/556,937
Source: PLT
Date Processed by STIC: 11/25/2005

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 11/25/2005

PATENT APPLICATION: US/10/556,937

TIME: 12:05:27

Input Set : A:\EX04-044patentin.txt

Output Set: N:\CRF4\11252005\J556937.raw

```

3 <110> APPLICANT: EXELIXIS, INC.
5 <120> TITLE OF INVENTION: MARKS AS MODIFIERS OF THE PTEN PATHWAY AND METHODS OF USE
7 <130> FILE REFERENCE: EX04-044
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/556,937
C--> 9 <141> CURRENT FILING DATE: 2005-11-10
9 <150> PRIOR APPLICATION NUMBER: US 60/479,768
10 <151> PRIOR FILING DATE: 2003-06-19
12 <160> NUMBER OF SEQ ID NOS: 18
14 <170> SOFTWARE: PatentIn version 3.2
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 2349
18 <212> TYPE: DNA
19 <213> ORGANISM: Homo sapiens
21 <400> SEQUENCE: 1
22 atggttatca tgtcggagtt cagcgcggac cccgcgggccc aggggtcaggg ccagcagaag      60
24 cccctccggg tgggttttta cgacatcgag cggaccctgg gcaaaggcaa cttcgcggtg      120
26 gtgaagctgg cgcggcatcg agtcaccaaa acgcagggttg caataaaaaat aattgataaa      180
28 acacgattag attcaagcaa tttggagaaa atctatcgtg aggttcagct gatgaagctt      240
30 ctgaaccatc cacacatcat aaagctttac caggttatgg aaacaaagga catgctttac      300
32 atcgtcactg aatttgctaa aaatggagaa atgtattatt tgacttccaa cgggcacctg      360
34 agtgagaacg aggcgcggaa gaagttctgg caaatcctgt cggccgtgga gtactgtcac      420
36 gaccatcaca tcgtccaccg ggacctcaag accgagaacc tcctgctgga tggcaacatg      480
38 gacatcaagc tggcagattt tggatttggg aatttctaca agtcaggaga gcctctgtcc      540
40 acgtggtgtg ggagcccccc gtatgccgcc ccggaagtct ttgaggggaa ggagtatgaa      600
42 ggccccccag tggacatctg ggtaggcctg ggcgtggtgc tgtacgtcct ggtctgcggt      660
44 tctctccccct tcgatgggct taacctggcg acgctgagac agcgggtgct ggagggccgc      720
46 ttccgcatcc ccttcttcat gtctcaagac tgtgagagcc tgatccgccg catgctggtg      780
48 gtggaccccc ccaggcgcac caccatcgcc cagatccggc agcaccggtg gatgcgggct      840
50 gagccctgct tgccgggacc cgctgcccc gccttctccg cacacagcta cacctccaac      900
52 ctgggcgact acgatgagca ggcgtgggt atcatgcaga ccctgggcgt ggaccggcag      960
54 aggacggtgg agtcaactgca aaacagcagc tataaccact ttgctgccat ttattacctc     1020
56 ctccctgagc ggtcaagga gtatcggaat gccagtgcg cccgccccgg gcctgccagg     1080
58 cagccgcggc ctccgagctc ggacctcagt ggtttggagg tgcctcagga aggtctttcc     1140
60 accgaccctt tccgacctgc cttgctgtgc ccgcagccgc agaccttggg gcagtccgtc     1200
62 ctccaggccg agatggactg tgagctccag agctcgctgc agcccttggt cttcccggtg     1260
64 gatgccagct gcagcggagt gttccggccc cggcccgtgt ccccaagcag cctgctggac     1320
66 acagccatca gtgaggaggc caggcagggg ccgggcctag aggaggagca ggacacgcag     1380
68 gagtccctgc ccagcagcac gggccggagg cacaccctgg ccgaggtctc caccgcctc     1440
70 tccccactca ccgcgccatg tatagtcgtc tccccctcca ccacggcaag tcctgcagag     1500
72 ggaaccagct ctgacagttg tctgaccttc tctgcgagca aaagccccgc ggggctcagt     1560
74 ggcaccccg ccactcaggg gctgctgggc gcctgctccc cggtcaggct ggctcgccc     1620
76 ttcttggggg cgcagtcgc caccacagtg ctgcaggctc aggggggctt gggaggagct     1680
78 gttctgctcc ctgtcagctt ccaggaggga cggcgggcgt cggacacctc actgactcaa     1740

```

RAW SEQUENCE LISTING

DATE: 11/25/2005

PATENT APPLICATION: US/10/556,937

TIME: 12:05:27

Input Set : A:\EX04-044patentin.txt

Output Set: N:\CRF4\11252005\J556937.raw

```

80 gggctgaagg cctttcggca gcagctgagg aagaccacgc ggaccaaagg gtttctggga 1800
82 ctgaacaaaa tcaaggggct ggctcgccag gtgtgccagg ccccgccag ccgggccagc 1860
84 aggggaggcc tgagccctt ccacgcccct gcacagagcc caggcctgca cggcgaggca 1920
86 gccggcagcc gggagggctg gagcctgctg gaggaggctg tagagcagca gaggctgctc 1980
88 cagttacagc accaccggc cgctgcaccc ggctgctccc agggccccc cccggcccct 2040
90 gcccgcgttg tgatcgcccc ctgtgatggc cctggggctg ccccgctccc cagcaccctc 2100
92 ctacagtcgg ggctcccgt gctgccggcc cactcctgc agaccggcgc gtccccggtg 2160
94 gcctcagcgg cgcagctcct ggacacacac ctgcacattg gcaccggccc caccgccctc 2220
96 cccgctgtgc cccaccacg cctggccagg ctggcccccag gttgtgagcc cctggggctg 2280
98 ctgcaggggg actgtgagat ggaggacctg atgccctgct ccctaggcac gtttgtcctg 2340
100 gtgcagtga 2349
103 <210> SEQ ID NO: 2
104 <211> LENGTH: 2607
105 <212> TYPE: DNA
106 <213> ORGANISM: Homo sapiens
108 <400> SEQUENCE: 2
109 gggactgggg gctccgagg caccgatgga gccgaccgcg ggcggggggg gcgctgggtg 60
111 gctctgagct ctgtgcggcc ccgcaggctg gcgcggagcc atggttatca tgtcggagtt 120
113 cagcgaggac cccgaggggc agggtcagg ccagcagaag cccctccggg tgggttttta 180
115 cgacatcgag cggaccctgg gcaaaggcaa cttcgcgggtg gtgaagctgg cgcggcatcg 240
117 agtcacaaaa acgcaggtag caataaaaaat aattgataaa acacgattag attcaagcaa 300
119 tttggagaaa atctatcgtg aggttcagct gatgaagctt ctgaaccatc cacacatcat 360
121 aaagctttac caggtagtta tggaaacaaa ggacatgctt tacatcgtca ctgaatttgc 420
123 taaaaatgga gaaatgtttg attatttgac ttccaacggg cacttgagtg agaacgaggc 480
125 gcggaagaag ttctggcaaa tcctgtcggc cgtggagtac tgtcacgacc atcacatcgt 540
127 ccaccgggac ctcaagaccg agaacctcct gctggatggc aacatggaca tcaagctggc 600
129 aggcacggaa gattttggat ttgggaattt ctacaagtca ggagagcctc tgtccacgtg 660
131 gtgtgggagc ccccgctatg ccgccccgga agtctttgag ggggaaggag atgaaggccc 720
133 ccagctggac atctggagcc tgggcgtggt gctgtacgtc ctggtctgcg gttctctccc 780
135 tcccttcgat gggcctaacc tgccgacgct gagacagcgg gtgctggagg gccgcttccg 840
137 catcccttc ttcattgttc aagactgtga gagcctgatc cgcgcgatgc tgggtggtgga 900
139 ccccgccagg cgcacacca tcgccagat ccggcagcac cgggtgatgc gggctgagcc 960
141 ctgcttgccg ggaccgcct gccccgcctt ctccgcacac agctacacct ccaacctggg 1020
143 cgactacgat gagcaggcgc tgggtatcat gcagaccctg ggcgtggacc ggcagaggac 1080
145 ggtggagtca ctgcaaaaca gcagctataa cactttgct gccatttatt acctcctcct 1140
147 tgagcggctc aaggagtatc ggaatgccc gtgcgcccgc cccgggcctg ccaggcagcc 1200
149 gcggcctcgg agctcggacc tcagtggttt ggagggtggt cctcaggaag gtctttccac 1260
151 cgacccttcc cgacctgct tgcgtgccc gcagccgcag accttgggtg agtccgtcct 1320
153 ccaggccgag atggactgtg agctccagag ctgctgcag tggcccttgt tcttcccggg 1380
155 ggatgccagc tgcagcggag tgttccggcc ccggcccgtg tccccaagca gcctgctgga 1440
157 cacagccatc agtgaggagg ccaggcaggg gccgggccta gaggaggagc aggacacgca 1500
159 ggagtccctg cccagcagca cgggcaggag gcacaccctg gccgaggtct ccaccgcct 1560
161 ctccccactc accgcgccat gtaaggtctc cccctccacc acggcaagtc ctgcagaggg 1620
163 aaccagctct gacagttgtc tgaccttctc tgcgagcaaa agccccgcgg ggctcagtgg 1680
165 caccggggcc actcaggggc tgcgtgggcgc ctgctccccg gtcaggctgg cctcgccctt 1740
167 cctggggctg cagtcgcgca cccagtgct gcaggctcag gggggcttgg gaggagctgt 1800
169 tctgtccct gtcagcttcc aggagggacg gcgggcgtcg gacacctcac tgactcaagg 1860
171 tgggctgaag gcctttcggc agcagctgag gaagaccacg cggaccaaaag ggtttctggg 1920
173 actgaacaaa atcaaggggc tggctcgcca ggtgtgccag gtccctgcca gccggggcag 1980

```

RAW SEQUENCE LISTING

DATE: 11/25/2005

PATENT APPLICATION: US/10/556,937

TIME: 12:05:27

Input Set : A:\EX04-044patentin.txt

Output Set: N:\CRF4\11252005\J556937.raw

```

175 caggggcggc ctgagccctc tccacgcccc tgcacagagc ccaggcctgc acggcgggcgc 2040
177 agccggcagc cgggagggct ggagcctgct ggaggaggtg ctagagcagc agaggaggct 2100
179 gctccagtta cagcaccacc cggccgctgc acccggtgc tcccaggccc cccagccggc 2160
181 cctgcccccg tttgtgatcg cccctgtga tggcctggg gctgccccgc tcccagcac 2220
183 cctcctcagc tcggggctcc cgctgctgcc gccccactc ctgcagaccg gcgcgtcccc 2280
185 ggtggcctca gcggcgagc tcctggacac acacctgcac attggcaccg gccccaccgc 2340
187 cctccccgct gtgccccac cagcctggc caggctggcc ccaggttggt agccctggg 2400
189 gctgctgcag ggggactgtg agatggagga cctgatgccc tgctccctag gcacgtttgt 2460
191 cctggtgcag tgagggcagc cctgcctcct ggcacggaca ctgactctta cagcaataac 2520
193 ttcagaggag gtgaagacat ctggcctcaa agccaagaac tttctagaag cgaaataagc 2580
195 aatacgttag gtgttttggc ttttttag 2607
198 <210> SEQ ID NO: 3
199 <211> LENGTH: 2427
200 <212> TYPE: DNA
201 <213> ORGANISM: Homo sapiens
203 <400> SEQUENCE: 3
204 gtgggctctg agctctgtgc ggccccgcag gtgcgcgcgg agccatggtt atcatgtcgg 60
206 agttcagcgc ggaccccgcg ggccagagtc agggccagca gaagccctc cgggtgggtt 120
208 tttacgacat cgagcggacc ctgggcaaag gcaacttcgc ggtggtgaag ctggcgcggc 180
210 atcgagtcac caaaacgcag gttgcaataa aaataattga taaaacacga ttagattcaa 240
212 gcaatttggg gaaaatctat cgtgaggttc agctgatgaa gcttctgaac catccacaca 300
214 tcataaagct ttaccaggtt atggaaacaa aggacatgct ttacatcgtc actgaatttg 360
216 ctaaaaatgg agaaatgttt gattatttga ctccaacgg gcacctgagt gagaacgagg 420
218 cgcggaagaa gttctggcaa atcctgtcgg ccgtggagta ctgtcacgac catcacatcg 480
220 tccaccggga cctcaagacc gagaacctcc tgctggatgg caacatggac atcaagctgg 540
222 cagatttttg atttggaat ttctacaagt caggagagcc tctgtccacg tgggtgaggga 600
224 gcccccgta tgccgccccg gaagtctttg aggggaagga gtatgaaggc cccagctgg 660
226 acatctggag cctgggcgtg gtgctgtacg tctggtctg cggttctctc ccttcgatg 720
228 ggcctaacct gccgacgctg agacagcggg tgctggaggg ccgcttcgcg atcccctct 780
230 tcattgtcca agactgtgag agcctgatcc gccgcatgct ggtggtggac cccgccaggc 840
232 gcatcaccat cgcccagatc cggcagcacc ggtggatgcg ggctgagccc tgcttgccgg 900
234 gaccgcctg cccgccttc tccgcacaca gctacacctc caacctgggc gactacgatg 960
236 agcaggcgct gggatatcat cagacctgg gcgtggaccg gcagaggacg gtggagtcat 1020
238 tgcaaaacag cagctataac cactttgtg ccatttatta cctcctcctt gaggcgctca 1080
240 aggagtatcg gaatgcccag tgcgcccgc ccgggctgc caggcagccg cggcctcgga 1140
242 gctcggacct cagtggtttg gaggtgcctc aggaaggctt tccaccgac ctttccgac 1200
244 ctgccttgct gtgcccgcag ccgcagacct tgggtgcagtc cgtcctccag gccagatgg 1260
246 actgtgagct ccagagctcg ctgcagtggc cettgttctt cccggtggat gccagctgca 1320
248 gcggagtgtt ccggccccgg cccgtgtccc caagcagcct gctggacaca gccatcagtg 1380
250 aggaggccag gcaggggccc ggcctagagg aggagcagga cacgcaggag tccctgccc 1440
252 gcagcacggg ccggaggcac accctggccg aggtctccac ccgcctctcc ccactcacgg 1500
254 cgccatgtat agtcgtctcc cctccacca cggcaagtc tgcagaggga accagctctg 1560
256 acagttgtct gaccttctct gcgagcaaaa gccccgcggg gctcagtggc acccggcca 1620
258 ctgaggggct gctgggcgcc tgctccccgg tcaggctggc ctgcctctc ctggggtcgc 1680
260 agtcgccac cccagtgtcg caggctcagg ggggcttggg aggagctgtt ctgctcctg 1740
262 tcagcttcca ggagggacgg cgggcgtcgg acacctcact gactcaaggg ctgaaggcct 1800
264 ttcggcagca gctgaggaag accacgcgga ccaaagggtt tctgggactg aacaaaatca 1860
266 aggggctggc tcgccagggt tgccaggctc ctccagcgg ggccagcagg ggcggcctga 1920
268 gccccctcca cgccccgtga cagagcccag gcctgcacgg cggcgagacc ggcagccggg 1980

```

RAW SEQUENCE LISTING

DATE: 11/25/2005

PATENT APPLICATION: US/10/556,937

TIME: 12:05:27

Input Set : A:\EX04-044patentin.txt

Output Set: N:\CRF4\11252005\J556937.raw

```

270 agggctggag cctgctggag gaggtgctag agcagcagag gctgctccag ttacagcacc 2040
272 acccgccgcg tgcacccggc tgcctccagg cccccagcc ggccctgcc ccgtttgtga 2100
274 tcgccccctg tgatggccct ggggctgccc cgctccccag caccctctc acgtcggggc 2160
276 tcccgtgct gccgccccca ctctgcaga ccggcgctc ccgggtggc tcagcggcgc 2220
278 agctcctgga cacacacctg cacattggca ccggccccac cgccctccc gctgtgcccc 2280
280 caccacgcct ggccaggctg gccccagggt gtgagccctt ggggctgctg cagggggact 2340
282 gtgagatgga ggacctgatg ccctgctccc taggcacgtt tgcctggtg cagtgagggc 2400
284 agccctgcat cctggcacgg acctgac 2427
287 <210> SEQ ID NO: 4
288 <211> LENGTH: 2352
289 <212> TYPE: DNA
290 <213> ORGANISM: Homo sapiens
292 <400> SEQUENCE: 4
293 atggttatca tgcggagtt cagcgcgagc cccgcgggcc agggtcaggg ccagcagaag 60
295 cccctccggg tgggttttta cgacatcgag cggaccctgg gcaaaggcaa cttcgcggtg 120
297 gtgaagctgg cgcggcatcg agtcacaaa acgcagggtg caataaaaat aattgataaa 180
299 acacgattag attcaagcaa tttggagaaa atctatcgtg aggttcagct gatgaagctt 240
301 ctgaaccatc cacacatcat aaagctttac caggttatgg aaacaaagga catgctttac 300
303 atcgtcactg aatttgctaa aaatggagaa atgtttgatt atttgacttc caacgggcac 360
305 ctgagtgaga acgaggcgcg gaagaagtgc tggcaaatac tgcggccgt ggagtactgt 420
307 cagaccatc acatcgtcca ccgggacctc aagaccgaga acctcctgct ggatggcaac 480
309 atggacatca agctggcaga ttttgattt gggaaattct acaagtcagg agagcctctg 540
311 tccacgtggt gtgggagccc ccctatgcc gcccggag tctttgaggg gaaggagtat 600
313 gaaggccccc agctggacat ctggagcctg ggcgtggtgc tgtacgtcct ggtctgcggt 660
315 tctctccctc tcgatgggccc taacctgcc acgctgagac agcgggtgct ggagggccgc 720
317 ttccgcaccc ccttcttcat gtctcaagac tgtgagagcc tgatccgcc catgctggtg 780
319 gtggaccccg ccaggcgcat caccatcgcc cagatccggc agcaccggtg gatgcgggct 840
321 gagccctgct tgccgggacc cgctgcccc gccttctccg cacacagcta caccccaac 900
323 ctgggcgact acgatgagca ggcgtgggt atcatgcaga cctgggctg ggaccggcag 960
325 aggacggtgg agtcaactga aaacagcagc tataaccact ttgctgccat ttattacctc 1020
327 ctcttgagga ggtcaagga gtatcggaat gccagtgcg cccgcccccg gcctgccagg 1080
329 cagccggcgc ctcgagctc ggaacctcagt ggtttggagg tgctcagga aggtctttcc 1140
331 accgacctt tccgacctgc cttgctgtgc ccgcagccgc agaccttggg gcagtccgtc 1200
333 ctccaggccg agatggactg tgagctccag agctcgtgc agtggccctt gttcttcccg 1260
335 gtggatgcca gctgcagcgg agtgttccgg ccccgcccg tgtcccaag cagcctgctg 1320
337 gacacagcca tcagtgagga ggccaggcag gggccgggccc tagaggagga gcaggacacg 1380
339 caggagtccc tgcccagcag cacgggcccg aggcacaccc tggccgaggt ctccaccgc 1440
341 ctctccccac tcaccgcgc atgtatagtc gtctccccct ccaccacggc aagtcctgca 1500
343 gaggaacca gctctgacag ttgtctgacc ttctctgcga gcaaaagccc cgcggggctc 1560
345 agtggcacc cgccactca ggggctgctg ggcgcctgct ccccggtcag gctggcctcg 1620
347 cccttctggt ggtcgcagtc cgccaccca gtgctgcagg ctcagggggg cttgggagga 1680
349 gctgttctgc tccctgtcag cttccaggag ggacggcggg cgtcggacac ctactgact 1740
351 caagggtgga aggcctttcg gcagcagctg aggaagacca cgcggacca agggtttctg 1800
353 ggactgaaca aaatcaagg gctggctcgc cagggtgtgc agggccccgc cagccgggccc 1860
355 agcaggggcg gcctgagccc cttccacgcc cctgcacaga gccaggcct gcacggcggc 1920
357 gcagccggca gccgggaggg ctggagcctg ctggaggagg tgctagagca gcagaggctg 1980
359 ctccagttac agcaccaccc ggccgctgca cccggtgct cccaggcccc ccagccggcc 2040
361 cctgccccgt ttgtgatcgc cccctgtgat ggccctgggg ctgccccgct cccagcacc 2100
363 ctctcacgt cggggctccc gctgctgccc ccccaactcc tgcagaccgg cgcgtccccg 2160

```

RAW SEQUENCE LISTING

DATE: 11/25/2005

PATENT APPLICATION: US/10/556,937

TIME: 12:05:27

Input Set : A:\EX04-044patentin.txt

Output Set: N:\CRF4\11252005\J556937.raw

```

365 gtggcctcag cggcgagct cctggacaca cacctgcaca ttggcaccgg cccaccgcc 2220
367 ctccccgctg tgccccacc acgcctggcc aggctggccc caggttgtga gccctgggg 2280
369 ctgctgcagg gggactgtga gatggaggac ctgatgccct gctccctagg cacgtttgtc 2340
371 ctggtgcagt ga 2352
374 <210> SEQ ID NO: 5
375 <211> LENGTH: 4726
376 <212> TYPE: DNA
377 <213> ORGANISM: Homo sapiens
379 <400> SEQUENCE: 5
380 ggcagccgga gcagtaggca cccgagcagc gccagcggcc gagcggggcg cttcctggcc 60
382 tgggcgctcc ggtggcgcg gaggtgcgcg cggagccatg gttatcatgt cggagttcag 120
384 cgcggacccc gcggggccagg gtcagggcca gcagaagccc ctccgggtgg gtttttacga 180
386 catcgagcgg accctgggca aaggcaactt cgcggtgggtg aagctggcg gcgacgagt 240
388 caccaaaacg cagggtgcaa taaaataat tgataaaaca cgattagatt caagcaattt 300
390 ggagaaaatc tatcgtgagg ttcatgtgat gaagcttctg aaccatccac acatcataaa 360
392 gctttaccag gttatggaaa caaaggacat gctttacatc gtcaactgaat ttgctaaaaa 420
394 tggagaaatg tttgattatt tgacttccaa cgggcacctg agtgagaacg aggcgcggaa 480
396 gaagttctgg caaatcctgt cggccgtgga gtactgtcac gaccatcaca tcgtccaccg 540
398 ggacctcaag accgagaacc tcctgctgga tggcaacatg gacatcaagc tggcagattt 600
400 tggatttggg aatttctaca agtcaggaga gcctctgtcc acgtggtgtg ggagcccccc 660
402 gtatgccgcc ccggaagtct ttgaggggaa ggagtatgaa ggcccccagc tggacatctg 720
404 gagcctgggc gtggtgctgt acgtcctggg ctgcggttct cccccctcg atgggcctaa 780
406 cctgccgacg ctgagacagc ggggtgctgga gggcgcttc cgcacccct tcttcatgtc 840
408 tcaagactgt gagagcctga tccgccgcat gctggtgggtg gaccccgcca ggcgcatcac 900
410 catcgcccag atccggcagc accggtggat gcgggctgag ccctgcttgc cgggacccgc 960
412 ctgccccgcc ttctccgcac acagctacac ctccaacctg ggcgactacg atgagcaggc 1020
414 gctgggtatc atgcagaccc tgggcgtgga ccggcagagg acggtggagt cactgcaaaa 1080
416 cagcagctat aaccactttg ctgccattta ttacctctc cttgagcggc tcaaggagta 1140
418 tcggaatgcc cagtgcgcc gccccgggccc tgccaggcag ccgcggcctc ggagctcgga 1200
420 cctcagtgcc ttggaggtgc ctcaggaagg tctttccacc gacctttcc gacctgcctt 1260
422 gctgtgccc cagccgcaga ccttgggtgca gtccgtcctc caggccgaga tggactgtga 1320
424 gctccagagc tcgctgcagt ggcccttgtt cttcccggtg gatgccagct gcagcggagt 1380
426 gttccggccc cggcccggtg ccccaagcag cctgctggac acagccatca gtgaggaggc 1440
428 caggcagggg ccgggcctag aggaggagca ggacacgcag gagtccctgc ccagcagcac 1500
430 gggccggagg cacaccctgg ccgaggtctc caccgcctc tccccactca ccgcgccatg 1560
432 tatagtcgtc tccccctcca ccacggcaag tcctgcagag ggaaccagct ctgacagttg 1620
434 tctgaccttc tctgcagaca aaagccccgc ggggtcaggt ggcaccccg ccactcaggg 1680
436 gctgctgggc gcctgctccc cggtcaggct ggcctcgccc ttctggggg cgcagtcgc 1740
438 cccccagtg ctgcaggctc aggggggctt gggaggagct gttctgctcc ctgtcagctt 1800
440 ccaggaggga cggcgggcgt cggacacctc actgactcaa gggctgaagg cctttcggca 1860
442 gcagctgagg aagaccacgc ggaccaaagg gtttctggga ctgaacaaa tcaaggggct 1920
444 ggctcgccag gtgtgccagg tccctgccag ccgggcccagc aggggcggcc tgagcccctt 1980
446 ccacgcccct gcacagagcc caggcctgca cggcggcgca gccggcagcc gggagggctg 2040
448 gagcctgctg gaggaggtgc tagagcagca gaggtgctc cagttacagc accaccggc 2100
450 cgtgacccc ggctgctccc agggccccca gccggccctt gccccgtttg tgatcgcccc 2160
452 ctgtgatggc cctggggctg ccccgctccc cagcacctc ctacgtcgg ggctccgct 2220
454 gctgcgcgcc cactcctgc agaccggcgc gtccccgggt gcctcagcgg cgcagctcct 2280
456 ggacacacac ctgcacattg gcaccggccc caccgcctc cccgctgtgc cccaccacg 2340
458 cctggccagg ctggccccag gttgtgagcc cctggggctg ctgcaggggg actgtgagat 2400

```

VERIFICATION SUMMARY

DATE: 11/25/2005

PATENT APPLICATION: US/10/556,937

TIME: 12:05:28

Input Set : A:\EX04-044patentin.txt

Output Set: N:\CRF4\11252005\J556937.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date